

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number  
**WO 2004/093783 A2**

- (51) International Patent Classification<sup>7</sup>: **A61K**
- (21) International Application Number:  
PCT/US2004/010946
- (22) International Filing Date: 15 April 2004 (15.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
10/418,780 16 April 2003 (16.04.2003) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US 10/418,780 (CIP)  
Filed on 16 April 2003 (16.04.2003)
- (71) Applicant (for all designated States except US): **ISIS PHARMACEUTICALS, INC.** [US/US]; 2292 Faraday Avenue, Carlsbad, CA 92008 (US).
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **CROOKE, Rosanne, M.** [US/US]; 3211 Piraqua Street, Carlsbad, CA 92009 (US). **GRAHAM, Mark, J.** [US/US]; 2305 S. Ola Vista, San Clemente, CA 92672 (US). **LEMONIDIS TARBET, Kristina, M.** [US/US]; 1652 Seattle Slew Way, Oceanside, CA 92057 (US). **DOBIE, Kenneth, W.** [GB/US]; 703 Stratford Ct., #4, Del Mar, CA 92014 (US).
- (74) Agent: **BAK, Mary, E.**; Howson and Howson, 321 Norristown Road, Suite 200, Spring House Corporate Center, P.O. Box 457, Spring House, PA 19477 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MODULATION OF APOLIPOPROTEIN C-III EXPRESSION

(57) Abstract: Compounds, compositions and methods are provided for modulating the expression of apolipoprotein C-III. The compositions comprise oligonucleotides, targeted to nucleic acid encoding apolipoprotein C-III. Methods of using these compounds for modulation of apolipoprotein C-III expression and for diagnosis and treatment of disease associated with expression of apolipoprotein C-III are provided.